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May 9, 2003

Commissioner for Patents Washington, D.C. 20231

Re:

U.S. Utility Patent Application

Appl. No. 09/849,537; Filed: May 7, 2001

Die-Up Ball Grid Array Package With A Heat Spreader and Meth For:

for Making the Same

Inventors:

Zhang et al.

Our Ref:

1875.0370000

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. PTO Fee Transmittal (Form PTO/SB/17);
- Third Supplemental Information Disclosure Statement;
- 3. List of cited references on Form PTO-1449 (3 sheets);
- 4. Copies of cited references on Form PTO-1449 (AA1-AA3, AB1-AB3, AC1-AC3, AD1-AD3, AE1-AE3, AF1-AF3, AG1-AG3, AH1, AH2, AI1, AI2, AJ1, AJ2, AK1, AK2, AL1, AM1, AR1, AR2, AS1, AS2, AT1);
- 5. Return postcard; and
- 6. Form PTO-2038 Credit Card Payment Form for \$180.00 to cover fee for submission of IDS.

Sterne, Kessler, Goldstein & Fox PLLC.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

Commissioner for Patents May 9, 2003 Page 2

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey S. Weaver

Attorney for Applicants

Registration No. 45,608

JSW/asl Enclosures

SKGF_DC1:131834.1

Complete if Knowing

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a
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FEE TRANSMITTAL

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· · · · · · · · · · · · · · · · · · ·			tion N	umber	09/849,537	May 7, 2001			
for FY 2003 Patent fees are subject to annual revision.		Filing Date First Named Inventor			May 7, 2001				
Patent fees are subject to annual revision.						Tonglong Zhang C C C C C C C C C C C C C C C C C C C			
☐ Applicant claims small entity status. See 37 CFR 1.27			er Nar		Monica Lewis		TER		
TOTAL AMOUNT OF PAYMENT (\$) 180.00			Group Art Unit 2822 Attorney Docket No. 1875.03				78		
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METHOD OF PAYMENT (check all that apply)	╁				EE CALCULATION (continuea)			
☐ Check ☒ Credit card ☐ Money Order ☒ Other** ☐ None ** Charge any deficiencies or credit any overpayments in the fees or ee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19- 1036.	3. ADDITIONAL FEES Large Entity Small Entity								
Deposit Account Deposit Account Number 19-0036	Fee Code			Fee (\$)	Fee Description	Fee Description			
Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.	1051	51 130 2051 65 Surcharge - late filing fee or				ee or oath			
The Commissioner is authorized to: (check all that apply)	1502	1502 50 2052 25 Surcharge-late sheet			Surcharge-late provision	nal filing fee	or cover		
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001 750 2001 375 Utility filing fee	1402	320	2402	160	Filing a brief in support of an appeal				
002 330 2002 165 Design filing fee	1403	3 280	2403	140	Request for oral hearin	g			
003 520 2003 260 Plant filing fee	145	1,510	1451	1,510	Petition to institute a pu	ıblic use prod	eeding		
004 750 2004 375 Reissue filing fee	145	2 110	2452	55	Petition to revive - unav	voidable		·	
105 160 2005 80 Provisional filing fee	145	3 1,300	2453	650	Petition to revive - unin	tentional			
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* Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 180.00								00	
SUBMITTED BY Complete (if applicable)									
Name (Print/Type) Jeffrey S. Weaver	Registration No. (Attorney/Agent) 45,608					Telephone 202-371-2600			
Signature A. We-						Date	5-9-	03	

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231.



FICE KEUHOLOGY CENTER 2800 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Zhang et al.

Appl. No. 09/849,537

Filed: May 7, 2001

Die-Up Ball Grid Array Package

With a Heat Spreader and Method for Making the Same Confirmation No. 7984

Examiner: Lewis, Monica

Atty. Docket: 1875.0370000

Third Supplemental Information Disclosure Statement

Commissioner for Patents Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- □ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- □ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.
- 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.
 - □ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

- □ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- c. Attached is our PTO-2038 Credit Card Payment Form [OR] Check No.

 _____ in the amount of \$ 180.00 in payment of the fee under 37

 C.F.R. § 1.17(p).
- □ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our Check No. ______ in the amount of \$ _____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
 - □ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - □ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- □ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the

foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

■ 6. A concise explanation of the relevance of the non-English language document AL1 appears below:

Document AL1 (JP 10-247703) appears to describe a ball grid array package and printed board. A copy of the English language abstract of document AM1 is enclosed as document AR1 on the attached PTO-1449.

□ 7. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. _______, filed ______, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Mrs. We-

Jeffrey S. Weaver Attorney for Applicants Registration No. 45,608

Date: 5-9-03

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